



RICHMOND POWER & LIGHT

www.RP-L.com

2000 U.S. 27 SOUTH
P.O. BOX 908
RICHMOND, INDIANA 47375-0908
(765) 973-7200 FAX (765) 973-7286

July 21, 2016

Via Electronic Filing – 30 Day Filings – Electric

Brenda A. Howe
Secretary of the Commission
Indiana Utility Regulatory Commission
101 West Washington St., Suite 1500 E
Indianapolis, IN 46204

RE: Richmond Power & Light 30 Day Filing Pursuant to 170 IAC 1-6-1 et seq.

Dear Ms. Howe:

Pursuant to 170 IAC 1-6-5, please find enclosed the following 30 Day Filing by Richmond Power & Light: 4th Quarter 2016 ECA. The tariff sheets and work papers are attached. The purpose of this filing is to obtain approval from the Commission. This filing is necessary to allow Richmond Power & Light to recapture the actual costs of providing electricity. This filing is allowed under 170 IAC 1-6-3 for the following reasons: A filing for which the commission has already approved or accepted the procedure for the change.

The person at Richmond Power & Light to be contacted regarding this filing is:

Sandra Lambert
(765) 973-7200
2000 US 27 S, P.O. Box 908, Richmond, IN 47375-0908
sandral@rp-l.com

Affected customers have been notified as required under 170 IAC 1-6-6. Notice will be published in the Palladium Item on Wednesday July 27, 2016. Notice has been posted in a public place in the Richmond Power & Light customer service office. Notice has also been posted on the Richmond Power & Light website at <http://www.rp-l.com/>. A copy of the notice is attached.

I verify that notice has been provided as stated in this letter and that this letter and the attached documents are true and accurate to the best of my knowledge, information, and belief.

Sincerely,

Sandra Lambert
Finance Manager





2000 U.S. 27 SOUTH
P.O. BOX 908
RICHMOND, INDIANA 47375-0908
(765) 973-7200 FAX (765) 973-7286

July 19, 2016

Brad Borum
Indiana Utility Regulatory Commission
Electricity Division
PNC Center
101 West Washington Street
Suite 1500 East
Indianapolis, IN 46204-3407

TO THE INDIANA UTILITY REGULATORY COMMISSION:

1. Richmond Power & Light, 2000 U.S. 27 South, Richmond, Indiana, under and pursuant to the Public Service Commission Act, as amended, and Commission Order in Cause No. 36835-S3, hereby files with the Indiana Utility Regulatory Commission for its approval, an average decrease in its schedule of rates for electricity sold in the amount of \$0.002911 per kilowatt-hour (KWH).
2. The accompanying changes in schedules of rates are based solely upon the changes in the cost of purchased power and energy, purchased by this utility computed in accordance with the Indiana Utility Regulatory Commission Order in Cause No. 36835-S3, dated December 13, 1989.
3. All of the matters and facts stated herein and in the attached exhibits are true and correct. If approved, this change of rate shall take effect for the bills to be rendered beginning with the October 2016 billing cycle.

City of Richmond, Indiana

Randall Baker
General Manager

RICHMOND POWER & LIGHT

Appendix A

Rate Adjustments

The Rate Adjustments shall be on the basis of a Purchase Power Cost Adjustment Tracking Factor occasioned solely by changes in the cost of purchased power and energy, in accordance with the Order of the Indiana Utility Regulatory Commission, approved December 13, 1989 in Cause No. 36835-S3, as follows:

Rate Adjustments applicable to the below listed Rate Schedules are as follows:

R	\$	0.043425	per KWH
CL	\$	0.067008	per KWH
GP, GEH and EHS	\$	0.043120	per KWH
LPS and IS	\$	12.578774	per KVA
	\$	14.809534	per KW
	\$	0.016050	per KWH
OL, M, and N	\$	0.016075	per KWH

October , November and December 2016

LEGAL AD

Notice is hereby given that the municipal electric utility of the City of Richmond, Indiana known as Richmond Power and Light, under and pursuant to the Public Service Commission Act, as amended, and Commission Order in Cause No. 36835-S3, has filed with the Indiana Utility Regulatory Commission for its approval in the Rate Adjustment factors listed below by Rate Schedules:

R	\$	0.043425	per KWH
CL	\$	0.067008	per KWH
GP, GEH, and EHS	\$	0.043120	per KWH
LPS and IS	\$	12.578774	per KVA
	\$	14.809534	per KW
	\$	0.016050	per KWH
OL, M, and N	\$	0.016075	per KWH

Rate adjustment changes are listed below by Rate Schedules:

R	increase	\$	0.001378	per KWH
CL	increase	\$	0.002265	per KWH
GP, GEH, and EHS	increase	\$	0.000793	per KWH
LPS and IS	decrease	\$	0.910125	per KVA
	decrease	\$	1.071529	per KW
	increase	\$	0.000090	per KWH
OL, M, and N	increase	\$	0.000110	per KWH

The accompanying changes in schedules of rate are based solely upon the changes in the cost of purchased power and energy, purchased by this utility computed in accordance with the Public Service Commission of Indiana order in Cause No. 36835-S3, dated December 13, 1989.

If approved, this change of rate shall take effect for the bills to be rendered beginning with the October 2016 billing cycle.

Richmond Power and Light
City of Richmond, Indiana
Randy Baker, General Manager

Any objections can be made to either of the following:

Indiana Utility Regulatory Commission
PNC Center
101 W. Washington Street
Suite 1500 East
Indianapolis, IN 46204-3407

Office of Utility Consumer Counselor
PNC Center
115 W. Washington Street
Suite 1500 South
Indianapolis, IN 46204-3407

STATE OF INDIANA)
) SS:
COUNTY OF WAYNE)

Randy Baker personally appeared before me, a Notary Public in and for said county and state, this July 19, 2016 , who, after having been duly sworn according to law, stated that he is an officer of the City of Richmond, Indiana, that he has read the matters and facts stated above, and in all exhibits attached hereto, and that the same are true; that he is duly authorized to execute this instrument for and on behalf of the applicant herein.



Randall Baker, General Manager



Susan K. Alexander, Notary Public

My Commission Expires: June 7, 2024

My County of Residence: Wayne

CITY OF RICHMOND, INDIANA

DETERMINATION OF INCREMENTAL CHANGE IN BASE RATE

LINE NO.	DESCRIPTION			DEMAND RELATED	ENERGY RELATED	LINE NO.
1	BASE RATE EFFECTIVE	01-Jan-16	(a)	\$22.230	\$0.030525	1
2	BASE RATE EFFECTIVE	01-Apr-05	(b)	\$10.582	\$0.016552	2
3	INCREMENTAL CHANGE IN BASE RATE (c)			\$11.648	\$0.013973	3

(a) IMPA rate effective for the period covered by this filing. The Base Rate includes the applicable Area Adjustment and Delivery Voltage Adjustment.

(b) Base purchased power rate including Area and Voltage Adjustments effective at the time of the member's last approved rate case was filed or January 27, 1983, whichever is more recent.

(c) Line 1 - Line 2

CITY OF RICHMOND, INDIANA

ESTIMATION OF SAVINGS FROM DEDICATED CAPACITY PAYMENTS
FOR THE THREE MONTHS OF:

	Oct-16	Nov-16	Dec-16	
LINE NO.	DESCRIPTION			LINE NO.
			DEMAND RELATED	
1			\$0.00	1
2			\$554,246.00	2
3			(\$554,246.00)	3
4			\$0.00	4
5			\$632,538.00	5
6			(\$632,538.00)	6
7			\$78,292.00	7
8			124,422	8
9			\$0.629246	9

(a) Line 1 - Line 2

(b) Line 4 - Line 5

(c) Line 3 - Line 6 Times The Number Of Years Since Last Cost Of Service Study

(d) Exhibit III, Column E, Line 1

(e) Line 7 divided by Line 8

(f) Capacity Payments Forecasted By Indiana Municipal Power Agency

(g) Average capacity payments for 12 months ending March, 2004

(h) Estimated Generating Costs (see attachment)

(i) Average generating cost for 12 months ending March, 2004

CITY OF RICHMOND, INDIANA
ESTIMATION OF ENERGY COST ADJUSTMENT
FOR THE THREE MONTHS OF:

LINE NO.	DESCRIPTION	Oct-16	Nov-16	Dec-16	TOTAL	ESTIMATED 3 MONTH AVERAGE	LINE NO.
		(A)	(B)	(C)		(D)	
	PURCHASED POWER FROM IMPA						
1	KW DEMAND	116,100	123,162	134,003	373,265	124,422	1
2	KWH ENERGY	70,699,696	70,189,953	77,408,955	218,298,604	72,766,201	2
	INCREMENTAL PURCHASED POWER COSTS						
	DEMAND RELATED						
3	ECA FACTOR PER KW	0.038	0.038	0.038		0.038	3
4	CHARGE (a)	\$4,411.80	\$4,680.16	\$5,092.11	\$14,184.07	\$4,728.02	4
	ENERGY RELATED						
5	ECA FACTOR PER KWH	0.001274	0.001274	0.001274		0.001274	5
6	CHARGE (b)	\$90,071.41	\$89,422.00	\$98,619.01	\$278,112.42	\$92,704.14	6

(a) Line 1 times Line 3

(b) Line 2 times Line 5

CITY OF RICHMOND, INDIANA

DETERMINATION OF RATE ADJUSTMENT FOR THE
THREE MONTHS OF:

LINE NO.	RATE SCHEDULE	KW DEMAND ALLOCATOR (%) (a)	KWH ENERGY ALLOCATOR (%) (a)	Oct-16	Nov-16	Dec-16			LINE NO.
				ALLOCATED ESTIMATED KW PURCHASED (b)	ALLOCATED ESTIMATED KWH PURCHASED (c)	INCREMENTAL CHANGE IN PURCHASED POWER COST ADJ FOR LINE LOSSES & GROSS RECEIPTS TAX			
						DEMAND (d)	ENERGY (e)	TOTAL	
(A)	(B)	(C)	(D)	(E)	(F)	(G)			
1	R	20.309%	17.470%	25,269.2	12,712,180	\$324,310.22	\$201,996.54	\$526,306.76	1
2	CL	7.662%	3.538%	9,533.8	2,574,582	\$122,358.55	\$40,910.12	\$163,268.67	2
3	GP, GEH & EHS	19.043%	16.552%	23,693.3	12,044,279	\$304,084.55	\$191,383.60	\$495,468.15	3
4	LPS, IS & TS	52.986%	61.213%	65,925.8	44,542,110	\$846,106.12	\$707,774.13	\$1,553,880.25	4
5	FLAT RATES	0.000%	1.227%	0.0	893,049	\$0.00	\$14,190.54	\$14,190.54	5
6	0	0.000%	0.000%	0.0	0	\$0.00	\$0.00	\$0.00	6
7	0	0.000%	0.000%	0.0	0	\$0.00	\$0.00	\$0.00	7
8	0	0.000%	0.000%	0.0	0	\$0.00	\$0.00	\$0.00	8
10	TOTAL	100.000%	100.000%	124,422.1	72,766,200	\$1,596,859.45	\$1,156,254.93	\$2,753,114.38	10

- (a) Taken From Demand & Energy Allocation factor study for the period ending March 31, 2004
 (b) Page 1 of 3, Column A, Line 8 times Page 2 of 3, Column A
 (c) Page 1 of 3, Column B, Line 8 times Page 2 of 3, Column B
 (d) Page 1 of 3, Column A, Line 9 times Page 2 of 3, Column A
 (e) Page 1 of 3, Column B, Line 9 times Page 2 of 3, Column B

CITY OF RICHMOND, INDIANA

DETERMINATION OF RATE ADJUSTMENT FOR THE
THREE MONTHS OF:

Oct-16 Nov-16 Dec-16

TOTAL CHANGE IN PURCHASED POWER COST
ADJ FOR LINE LOSSES & GROSS RECEIPTS TAX

RATE ADJUSTMENT FACTOR PER KWH (d)

LINE NO.	RATE SCHEDULE	PLUS VARIANCE (a)		TOTAL CHANGE IN PURCHASED POWER COST ADJ FOR LINE LOSSES & GROSS RECEIPTS TAX			RATE ADJUSTMENT FACTOR PER KWH (d)			LINE NO.
		DEMAND	ENERGY	DEMAND (b)	ENERGY (c)	TOTAL	DEMAND	ENERGY	TOTAL	
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	
1	R	\$23,184.53	\$2,540.09	\$347,494.75	\$204,536.63	\$552,031.39	0.027336	0.016090	0.043425	1
2	CL	\$8,771.25	\$476.39	\$131,129.80	\$41,386.51	\$172,516.31	0.050932	0.016075	0.067008	2
3	GP, GEH & EHS	\$21,968.05	\$1,915.71	\$326,052.60	\$193,299.31	\$519,351.91	0.027071	0.016049	0.043120	3
4	LPS, IS & TS	\$130,224.25	\$7,107.36	\$976,330.37	\$714,881.49	\$1,691,211.86	0.021919	0.016050	0.037969 (f)	4
5	FLAT RATES	(\$0.02)	\$165.14	(\$0.02)	\$14,355.68	\$14,355.66	0.000000	0.016075	0.016075	5
6	0			\$0.00	\$0.00	\$0.00	0.000000	0.000000	0.000000	6
7	0			\$0.00	\$0.00	\$0.00	0.000000	0.000000	0.000000	7
8	0			\$0.00	\$0.00	\$0.00	0.000000	0.000000	0.000000	8
10	TOTAL	\$184,148.06	\$12,204.68	\$1,781,007.51	\$1,168,459.61	\$2,949,467.12	0.024476	0.016058	0.040533	10

(a) Exhibit IV, Page 4 of 7, Columns D and E divided by (1 - loss factor)(.986) =

0.959563184

(b) Page 2 of 3, Column E plus Page 3 of 3, Column A

(c) Page 2 of 3, Column F plus Page 3 of 3, Column B

(d) Page 3 of 3, Columns C, D and E divided by Page 2 of 3, Column D

(f) See Attachment (B)

CITY OF RICHMOND, INDIANA

RECONCILIATION OF VARIANCES FOR THE
THREE MONTHS OF

LINE NO.	DESCRIPTION	Apr-16	May-16	Jun-16	LINE NO.
			DEMAND RELATED (A)	ENERGY RELATED (B)	
1	INCREMENTAL CHANGE IN BASE RATE (a)		\$11.648	\$0.0139730	1
2	ACTUAL SAVINGS FROM DEDICATED CAPACITY PAYMENTS (b)		\$0.598	--	2
3	ACTUAL PURCHASED POWER ENERGY COST ADJUSTMENT (c)		\$0.038	\$0.0012740	3
4	PLUS TRACKING FACTOR EFFECTIVE PRIOR TO JANUARY 27, 1983 (d)		\$0.000	\$0.0000000	4
5	TOTAL RATE ADJUSTMENT (e)		\$12.284	\$0.0152470	5
6	ACTUAL AVERAGE BILLING UNITS (f)		130,827	73,332,899	6
7	ACTUAL INCREMENTAL CHANGE IN PURCHASED POWER COST (g)		\$1,607,136.30	\$1,118,106.71	7

(a) Attachment 1, Page 1 of 3, Line 1 of Tracker filing for the three months of:
Apr-16 May-16 Jun-16

(b) Exhibit IV, Page 5 of 7, Column E, Line 9

(c) Exhibit IV, Page 6 of 7, Column E, Lines 3 and 5

(d) Tracking Factor effective prior to January 27, 1983

From page 1 of 3, line 6 Tracker filing for the
three months of APRIL, MAY AND JUNE 2005

This line is zero if new rates have been approved since January 27, 1983.

(e) Sum of Lines 1 through 4

(f) Exhibit IV, Page 6 of 7, Column E, Lines 1 and 2

(g) Line 5 times Line 6

CITY OF RICHMOND, INDIANA

RECONCILIATION OF VARIANCES FOR THE
THREE MONTHS OF:

LINE NO.	RATE SCHEDULE	KW DEMAND ALLOCATOR (%) (a)	KWH ENERGY ALLOCATOR (%) (a)	Apr-16	May-16	Jun-16			LINE NO.
				ALLOCATED ACTUAL KW PURCHASED (b)	ALLOCATED ACTUAL KWH PURCHASED (c)	INCREMENTAL CHANGE IN PURCHASED POWER COST			
						DEMAND (d)	ENERGY (e)	TOTAL	
(A)	(B)	(C)	(D)	(E)	(F)	(G)	-		
1	R	20.309%	17.470%	26,570.0	12,811,182	\$326,397.38	\$195,332.09	\$521,729.47	1
2	CL	7.662%	3.538%	10,024.6	2,594,633	\$123,146.01	\$39,560.37	\$162,706.38	2
3	GP, GEH & EHS	19.043%	16.552%	24,912.9	12,138,079	\$306,041.54	\$185,069.29	\$491,110.83	3
4	LPS, IS & TS	52.986%	61.213%	69,319.5	44,889,001	\$851,551.37	\$684,422.60	\$1,535,973.97	4
5	FLAT RATES	0.000%	1.227%	0.0	900,004	\$0.00	\$13,722.36	\$13,722.36	5
6		0.000%	0.000%	0.0	0	\$0.00	\$0.00	\$0.00	6
7		0.000%	0.000%	0.0	0	\$0.00	\$0.00	\$0.00	7
8		0.000%	0.000%	0.0	0	\$0.00	\$0.00	\$0.00	8
10	TOTAL	100.000%	100.000%	130,827.0	73,332,899	\$1,607,136.30	\$1,118,106.71	\$2,725,243.01	10

- (a) Page 2 of 3, Columns A and B of tracker filed for the months of Apr-16
- (b) Exhibit IV, Page 6 of 7, Column E, Line 1 times Exhibit IV, Page 2 of 7, Column A
- (c) Exhibit IV, Page 6 of 7, Column E, Line 2 times Exhibit IV, Page 2 of 7, Column B
- (d) Exhibit IV, Page 1 of 7, Column A, Line 7 times Exhibit IV, Page 2 of 7, Column A
- (e) Exhibit IV, Page 1 of 7, Column B, Line 7 times Exhibit IV, Page 2 of 7, Column B

May-16 Jun-16

CITY OF RICHMOND, INDIANA

RECONCILIATION OF VARIANCES FOR THE
THREE MONTHS OF:

LINE NO.	RATE SCHEDULE	ACTUAL AVERAGE KWH SALES (a)	ACTUAL AVERAGE KVA SALES (a)	Apr-16	May-16	Jun-16	INCREMENTAL KWH ENERGY COST BILLED BY MEMBER (e)	LESS PREVIOUS VARIANCE FOR MONTHS LISTED ABOVE		LINE NO.
				DEMAND ADJUSTMENT FACTOR PER KWH (b)	ENERGY ADJUSTMENT FACTOR PER KWH (c)	INCREMENTAL KW DEMAND COST BILLED BY MEMBER (d)		DEMAND (f)	ENERGY (g)	
		(A)	(A)	(B)	(C)	(D)	(E)	(F)	(G)	
1	R	12,315,082		0.024867	0.016309	\$301,951.80	\$198,034.82	(\$2,198.56)	\$5,140.11	1
2	CL	2,494,159		0.046397	0.016312	\$114,101.39	\$40,115.14	(\$628.05)	\$1,011.89	2
3	GP, GEH & EHS	11,668,045		0.024588	0.016305	\$282,877.38	\$187,584.01	(\$2,084.43)	\$4,352.96	3
4	LPS, IS & TS	43,150,721	69,320	12.435358	0.016305	\$849,944.82	\$693,722.49	\$123,351.85	\$16,119.85	4
5	FLAT RATES	865,152		0.000000	0.016307	\$0.00	\$13,910.52	(\$0.02)	\$346.62	5
6	0			0.000000	0.000000	\$0.00	\$0.00	\$0.00	\$0.00	6
7	0			0.000000	0.000000	\$0.00	\$0.00	\$0.00	\$0.00	7
8	0			0.000000	0.000000	\$0.00	\$0.00	\$0.00	\$0.00	8
10	TOTAL	70,493,159				\$1,548,875.39	\$1,133,366.98	\$118,440.79	\$26,971.43	10

(a) Exhibit IV, Page 7 of 7, Column E

(b) Page 3 of 3, Column F of Tracker Filing for the three months of:

(c) Page 3 of 3, Column G of Tracker Filing for the three months of:

(d) Column A times Column B times the Gross Income Tax Factor of:

(e) Column A times Column C times the Gross Income Tax Factor of:

(f) Exhibit IV, Page 4 of 7, Column D of Tracker Filing for the months of:

(g) Exhibit IV, Page 4 of 7, Column E of Tracker Filing for the months of:

Apr-16	May-16	Jun-16
Apr-16	May-16	Jun-16
0.986		
0.986		
Apr-16	May-16	Jun-16
Apr-16	May-16	Jun-16

CITY OF RICHMOND, INDIANA

RECONCILIATION OF VARIANCES FOR THE
THREE MONTHS OF:

Apr-16 May-16 Jun-16

LINE NO.	RATE SCHEDULE	NET INCREMENTAL COST BILLED BY MEMBER			VARIANCE			LINE NO.
		DEMAND (a)	ENERGY (b)	TOTAL	DEMAND (c)	ENERGY (c)	TOTAL (c)	
		(A)	(B)	(C)	(D)	(E)	(F)	
1	R	\$304,150.36	\$192,894.71	\$497,045.07	\$22,247.02	\$2,437.38	\$24,684.40	1
2	CL	\$114,729.44	\$39,103.25	\$153,832.69	\$8,416.57	\$457.12	\$8,873.69	2
3	GP, GEH & EHS	\$284,961.81	\$183,231.05	\$468,192.86	\$21,079.73	\$1,838.24	\$22,917.97	3
4	LPS, IS & TS	\$726,592.97	\$677,602.64	\$1,404,195.61	\$124,958.40	\$6,819.96	\$131,778.36	4
5	FLAT RATES	\$0.02	\$13,563.90	\$13,563.92	(\$0.02)	\$158.46	\$158.44	5
6	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	6
7	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	7
8	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	8
10	TOTAL	\$1,430,434.60	\$1,106,395.55	\$2,536,830.15	\$176,701.70	\$11,711.16	\$188,412.86	10

(a) Column D minus Column F from Exhibit IV, page 3 of 7

(b) Column E minus Column G from Exhibit IV, Page 3 of 7

(c) Columns E, F, and G from Exhibit IV, Page 2 of 7 minus Columns A, B, and C

CITY OF RICHMOND, INDIANA

DETERMINATION OF ACTUAL DEDICATED CAPACITY PAYMENTS
FOR THE THREE MONTHS OF

LINE NO.	DESCRIPTION	Apr-16	May-16	Jun-16	TOTAL	AVERAGE	LINE NO.
		April	May	June			
		(A)	(B)	(C)	(D)	(E)	
1	ACTUAL MEMBER GENERATING COSTS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	1
2	LESS: GENERATING COSTS IN BASE RATES	\$ 554,246.00	\$ 554,246.00	\$ 554,246.00	\$1,662,738.00	\$554,246.00	2
3	DIFFERENCE IN ACTUAL TO BASE RATE COSTS (a)	(\$554,246.00)	(\$554,246.00)	(\$554,246.00)	(\$1,662,738.00)	(\$554,246.00)	3
4	ACTUAL MONTHLY PAYMENT FROM IMPA	\$ -	\$ -	\$ -	\$0.00	\$0.00	4
5	LESS: ESTIMATED PAYMENT IN BASE RATES (f)	\$ 632,538.00	\$ 632,538.00	\$ 632,538.00	\$1,897,614.00	\$632,538.00	5
6	DIFFERENCE IN ACTUAL TO BASE RATE PAYMENT (b)	(\$632,538.00)	(\$632,538.00)	(\$632,538.00)	(\$1,897,614.00)	(\$632,538.00)	6
7	ACTUAL CAPACITY PAYMENT SAVINGS TO BE COLLECTED THROUGH THE TRACKER (c)	\$78,292.00	\$78,292.00	\$78,292.00	\$234,876.00	\$78,292.00	7
8	ACTUAL MONTHLY KW BILLED (d)	119,466	127,182	145,832	392,480	130,827	8
9	ACTUAL CAPACITY PAYMENT SAVINGS PER KW (e)	\$0.655	\$0.616	\$0.537		\$0.598	9

- (a) Line 1 minus Line 2
- (b) Line 4 minus Line 5
- (c) Line 3 minus Line 6
- (d) Exhibit IV, Page 6 of 7, Line 1
- (e) Line 7 divided by Line 8
- (f) Exhibit II, Line 5

CITY OF RICHMOND, INDIANA

DETERMINATION OF ACTUAL ENERGY COST ADJUSTMENT
FOR THE THREE MONTHS OF:

LINE NO.	DESCRIPTION	Apr-16	May-16	Jun-16	TOTAL	ACTUAL 3 MONTH AVERAGE	LINE NO.
		Apr-16	May-16	Jun-16		(E)	
		(A)	(B)	(C)	(D)	(E)	
	PURCHASED POWER FROM IMPA						
1	KW DEMAND (a)	119,466	127,182	145,832	392,480	130,827	1
2	KWH ENERGY (a)	70,950,649	70,555,192	78,492,855	219,998,696	73,332,899	2
	INCREMENTAL PURCHASED POWER COSTS						
	DEMAND RELATED						
3	ECA FACTOR PER KW (a)	0.038	0.038	0.038		0.038	3
4	CHARGE (b)	\$4,539.71	\$4,832.92	\$5,541.62	\$14,914.24	\$4,971.41	4
	ENERGY RELATED						
5	ECA FACTOR PER KWH (a)	0.001274	0.001274	0.001274		0.001274	5
6	CHARGE (c)	\$90,391.13	\$89,887.31	\$99,999.90	\$280,278.34	\$93,426.11	6

(a) From IMPA bills for the months of:
(b) Line 1 times Line 3
(c) Line 2 times Line 5

Apr-16

May-16

Jun-16

CITY OF RICHMOND, INDIANA

DETERMINATION OF ACTUAL AVERAGE KWH SALES
FOR THE THREE MONTHS OF:

LINE NO.	RATE SCHEDULE	Apr-16	May-16	Jun-16	TOTAL	AVERAGE	LINE NO.
		Apr-16	May-16	Jun-16			
-		(A)	(B)	(C)	(D)	(E)	-
1	R	13,732,146	10,471,006	12,742,094	36,945,246	12,315,082	1
2	CL	2,761,740	2,203,430	2,517,306	7,482,476	2,494,159	2
3	GP, GEH & EHS	11,621,590	11,024,954	12,357,590	35,004,134	11,668,045	3
4	LPS, IS & TS	42,409,776	42,280,448	44,761,940	129,452,164	43,150,721	4
5	FLAT RATES	854,198	828,281	912,977	2,595,456	865,152	5
6	0	0	0	0	0	0	6
7	0	0	0	0	0	0	7
8	0	0	0	0	0	0	8
10	TOTAL	71,379,450	66,808,119	73,291,907	211,479,476	70,493,159	10

DETERMINATION OF ACTUAL AVERAGE KVA SALES

LPS & IS	66,768	66,115	75,076	207,959	69,320
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CITY OF RICHMOND, INDIANA

DETERMINATION OF ACTUAL KW DEMAND ALLOCATION AND KWH ENERGY ALLOCATION FACTORS

Rate Tariffs		Average	Percent of	Rate Study		Rate Study	Adjusted	
Code	Rate Schedule Name/Description	Sales	Total kWh	kWh Energy	Variance	kW Demand	Adjusted	kW Demand
		(A)	(B)	Factors	(D)	Factors	Factors	Allocators
R	Residential Electric Service	12,315,082	17.470%	21.898%	-20.221%	22.955%	18.313%	20.309%
CL	Commercial Lighting Service	2,494,159	3.538%	4.005%	-11.657%	7.821%	6.909%	7.662%
GP, GEH & EHS	Gen Power, Gen Electric Heat & Electric Heat Schools	11,668,045	16.552%	8.904%	85.894%	9.237%	17.171%	19.043%
LPS, IS & TS	Large Power, Industrial Service & Transmission Service	43,150,721	61.213%	64.065%	-4.452%	59.987%	52.986%	52.986%
FLAT RATES	Outdoor Lighting, Street Lighting	865,152	1.227%	1.128%	1.227%	0.000%	0.000%	0.000%
0	0	0	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%
0	0	0	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%
0	0	0	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%
Sales		70,493,159	100.000%	100.000%		100.000%	95.379%	100.000%
Purchases		73,332,899						
Average Losses		3.9%						

- (A) From utility billing records
- (B) (A)/total of column (A)
- (C) Taken from last cost of service study.
- (D) Column (B)/Column (C)
- (E) Taken from last cost of service study
- (F) (1 + Column (D)) * (Column (E))
- (G) Column (F)/total of Column (F)

4/1/2016 5/1/2016 6/1/2016

CITY OF RICHMOND, INDIANA

DETERMINATION OF RATE ADJUSTMENT FOR LPS & IS
FOR THE THREE MONTHS OF:

LINE NO.	Oct-16	Nov-16	Dec-16
-	Rates LPS, IS & TS		

	Demand Related Adjustment Factor		
1	From Page 3 of 3, Column C, Line 4	\$976,330.37	
2	From Page 2 of 3, Column C, Line 4	65,925.80 kW	
3	Line 1 divided by Line 2	14.809534 per KW	
4	Line 3 multiplied by 84.937%	12.578774	
5	Demand Related Rate Adjustment Factor	12.578774 per KVA	
	Rates LPS, IS & TS		

	Energy Related Adjustment Factor		
6	From Page 3 of 3, Column D, Line 4	\$714,881.49	
7	From Page 2 of 3, Column D, Line 4	44,542,110 KWH	
8	Line 6 divided by Line 7	\$0.016050	
9	Energy Related Adjustment Factor	\$0.016050 per KWH	

Energy Cost Adjustment (Revenue Report) KWH

	Apr-16	May-16	Jun-16
R - 44010	13,732,146	10,471,006	12,742,094
CWH - 44020			
K - 44030			
ASH - 44040			
CL - 44210	2,713,715	2,162,223	2,473,706
GP - 44220	11,137,147	10,597,685	11,916,573
IS - 44270	7,184,850	7,181,800	7,651,650
LPS - 44280	34,442,676	34,361,548	36,430,940
GEH - 44290	175,489	149,637	138,672
EH - 44250			
EHS - 44500	86,256	71,100	69,600
OL - 44260	267,911	255,462	265,165
FLAT - 44410 N	65,958	68,188	75,007
PARK OL - 4	0	0	0
PARK OL - 5	0	0	0
PARK OL - 6	0	0	0
PARK OL - 95	0	0	0
PARL OL - 94	0	0	0
PARK OL - 93	0	0	0
CL - 41	48,025	41,207	43,600
ST LIT - CITY M	520,329	504,631	572,805
GP - 44	118,197	93,435	124,272
GEH - 46	104,501	113,097	108,473
IS - IS	782,250	737,100	679,350
LPS - CITY	0	0	0
CITY BILLS	0	0	0
	71,379,450	66,808,119	73,291,907
BY RATE CLASS			
R	13,732,146	10,471,006	12,742,094
CL	2,761,740	2,203,430	2,517,306
GP, GEH, & EHS	11,621,590	11,024,954	12,357,590
LPS & IS	42,409,776	42,280,448	44,761,940
OL, M, & N	854,198	828,281	912,977
TOTAL	71,379,450	66,808,119	73,291,907
	71,379,450	66,808,119	73,291,907
LPS & IS Coincident kW	66,768	66,115	75,076
	70,525,252	65,979,838	72,378,930

CAPACITY COST REPORT

April
2016May
2016June
2016

UNIT FIXED COSTS		April 2016	May 2016	June 2016
Acct No.				
500	Supv and Engr - Operation	0.00	0.00	0.00
502	Steam Expenses	0.00	0.00	0.00
505	Electric Expenses	0.00	0.00	0.00
506	Misc Steam Power Expenses	0.00	0.00	0.00
511	Maint of Structures	0.00	0.00	0.00
	Payroll Taxes	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
(A)	TOTAL UNIT FIXED COSTS	0.00	\$0.00	0.00
UNIT VARIABLE COSTS				
509	SO2 Allowances	0.00	0.00	0.00
509.1	NOX Allowances	0.00	0.00	0.00
510	Supv and Engr - Maint	0.00	0.00	0.00
512	Maint of Boiler Plant	0.00	0.00	0.00
513	Maint of Electric Plant	0.00	0.00	0.00
514	Misc Steam Plant Expenses	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
(B)	TOTAL UNIT VARIABLE COSTS	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL PRODUCTION COST		0.00	\$0.00	0.00
ADMN.& GENERAL COSTS(PRODUCTION RELATED)				
920	Admn and general salaries	101,033.22	\$108,562.39	124,104.99
921	Office supplies and expense	155,168.34	42,287.43	18,906.93
923	Outside services employed	45,742.32	52,470.07	94,560.40
925	Injuries and damages	27,502.28	28,537.78	24,681.53
926	Employee pension and benefits	262,616.59	272,403.15	263,788.93
928	Regulatory commission expenses	0.00	19,298.00	0.00
930	Misc general expense	310.50	1,336.96	327.50
931	Rents	0.00	0.00	0.00
932	Maint of general plant	18,194.81	24,999.85	23,503.58
933	Transportation	4,589.84	4,611.22	7,115.57
	Payroll taxes	<u>10,350.94</u>	<u>9,985.00</u>	<u>10,876.13</u>
	TOTAL ADMN AND GENERAL EXPENSES	625,508.84	564,491.85	567,865.56
PRR=		<u>0.000000</u>	<u>0.000000</u>	<u>0.000000</u>
(C)	PRODUCTION RELATED ADMN/GEN. EXPENSE	0.00	0.00	0.00
(D)	PLANT INSURANCE	0.00	0.00	0.00
(E)	DEBT SERVICE	0.00	0.00	0.00
AMORTIZATION AND INTEREST				
	Amortized capital	0.00	0.00	0.00
	Interest on capital	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	Amortized Expenses on Unit #1 Scheduled Outage	0.00	0.00	0.00
	Interest on Expenses	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
(F)	<u>Total amortization</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
(G)	TOTAL MEMBER PRODUCTION COSTS	0.00	0.00	0.00

CITY OF RICHMOND, INDIANA

EXHIBIT V

DETERMINATION OF DEMAND RELATED AND ENERGY RELATED
COSTS INCLUDED IN TRACKING FACTOR EFFECTIVE PRIOR TO JANUARY 27, 1983

LINE NO.	DESCRIPTION	DEMAND RELATED	ENERGY RELATED	TOTAL	LINE NO.
WHOLESALE POWER COSTS TRACKER					
1	FERC DOCKET NOS. ER78-381 AND ER81-48 FILING DATED JULY 15, 1981.	(\$0.000241)	(\$0.000025)	(\$0.000266)	1
2	FERC DOCKET NO. ER82-555-000 FILING DATED AUGUST 3, 1982	\$0.001857	(\$0.000192)	\$0.001665	2
3	FERC DOCKET NO. ER82-555-000 FILING DATED NOVEMBER 18, 1982	\$0.001483	\$0.000000	\$0.001483	3
4	FERC DOCKET NO. ER82-555-000 FILING DATED JANUARY 3, 1983	(\$0.000964)	\$0.000130	(\$0.000834)	4
5	TOTAL WHOLESALE POWER COST TRACKER PER KWH - APPENDIX B, LINE 8 OF TRACKING FACTOR APPROVED ON JANUARY 27, 1983	\$0.002135	(\$0.000087)	\$0.002048	5
6	AVERAGE WEIGHTED FUEL COST CHARGE BILLED PER KWH - APPENDIX B, LINE 7 OF TRACKING FACTOR APPROVED ON JANUARY 27, 1983	\$0.000000	\$0.003597	\$0.003597	6
7	TOTAL PRESENT TRACKING FACTOR	\$0.002135	\$0.003510	\$0.005645	7

CITY OF RICHMOND
RICHMOND POWER & LIGHT

EXHIBIT V-A

DETERMINATION OF NET CAPACITY PURCHASE PAYMENTS
TWELVE MONTH PERIOD ENDED OCTOBER 31, 1982

LINE NO. -----	DESCRIPTION -----		LINE NO. -----
	PRODUCTION *		
1	FUEL	\$8,913,320.89	1
2	ALL OTHER PRODUCTION	\$0.00	2
3	OPERATING & MAINTENANCE	\$1,921,600.89	3
4	TOTAL PRODUCTION	\$10,834,921.78	4
5	ADMINISTRATIVE & GENERAL	\$505,382.69	5
6	PAYROLL RELATED TAXES	\$137,502.45	6
7	CONTRIBUTION IN LIEU OF PROPERTY TAXES	\$270,350.99	7
	DEPRECIATION		
8	PRODUCTION FACILITIES	\$838,266.48	8
9	GENERAL PLANT	\$25,858.39	9
10	TOTAL DEPRECIATION	\$864,124.87	10
11	TOTAL OPERATING REVENUE DEDUCTIONS	\$12,612,282.78	11
12	PROVISION FOR DEBT SERVICE	\$822,366.00	12
13	TOTAL COST	\$13,434,648.78	13
	CAPACITY PURCHASE PAYMENTS		
14	CAPACITY PAYMENT ** \$4.29 KW - MONTH X 93,400 KW X 12 MONTHS	\$4,808,232.00	14
15	FUEL PAYMENT \$.020093 KWH X 443,603,289 KWH	\$8,913,320.89	15
16	TOTAL PAYMENT	\$13,721,552.89	16
17	LESS TOTAL COST	(\$13,434,648.78)	17
18	TOTAL NET PAYMENT	\$286,904.11	18
	 \$13,434,648.78 (\$8,913,320.89) ----- (\$ 4,521,327.89 / 12 = \$376,777.32 EXHIBIT II LINE 2)		
	 (\$4,802,232 / 12 = \$400,686.00 EXHIBIT II LINE 5)		

* PRODUCTION EXPENSES FROM PAGE 1 OF NOTE A JANUARY 25, 1983 FILING

** CHANGED FROM \$4.94 OF PREVIOUS FILING TO \$4.29



IMPA
INDIANA MUNICIPAL POWER AGENCY

501.300

July 11, 2016

IMPA Board of Commissioners
Indiana Municipal Power Agency
11610 North College Avenue
Carmel, IN 46032

Dear Commissioner:

Enclosed are the estimated Energy Cost Adjustment factors for the fourth quarter (October, November and December) of 2016.

If you have any questions, please feel free to call Bev Matthews at (317) 428-6715.

Sincerely,

INDIANA MUNICIPAL POWER AGENCY

Bev Matthews
Vice President, Rates & Billing

BM/cr

Enclosure

cc: Pat Callahan
Greg Guerrettaz, Financial Solutions
Jarrod Hall, O.W. Krohn & Associates
Keith Gimbel, Gimbel & Associates
Don Gruenemeyer, JS Sawvel
Alex D. Hilt, H.J.Umbaugh

**INDIANA MUNICIPAL POWER AGENCY
 ECA ESTIMATES FOR OCTOBER, NOVEMBER and DECEMBER
 2016 - 4TH QUARTER**

	OCT	NOV	DEC	OCT	NOV	DEC
	\$/kW-month			\$/kWh		
IMPA's Energy Cost Adjustment	0.038	0.038	0.038	0.001274	0.001274	0.001274
	kW			kWh		
To develop these Energy Cost Adjustment factors, IMPA used the following estimated loads for RICHMOND	116,100	123,162	134,003	70,699,696	70,189,953	77,408,955



IMPA

INDIANA MUNICIPAL POWER AGENCY

Richmond Power & Light
P.O. Box 908
Richmond, IN 47374

Due Date:
06/15/16

Amount Due:
\$4,915,928.58

Billing Period: April 1 to 30, 2016

Invoice No: INV0006217
Invoice Date: 05/16/16

Demand	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	121,979	4,521	99.93%	04/05/16	1000	80.79%
CP Billing Demand:	119,466	4,603	99.93%	04/08/16	1000	82.49%
kvar at 97% PF:		29,941				
Reactive Demand:		-				

Energy	kWh
WWVS Net Gen:	-
Richmond 1:	14,211,325
Richmond 2:	33,853,835
Richmond Solar:	192,548
Northwest:	13,229,539
Treaty:	9,463,402
Total Energy:	70,950,649

History	Apr 2016	Apr 2015	2016 YTD
Max Demand (kW):	121,979	117,597	146,614
CP Demand (kW):	119,466	117,597	141,804
Energy (kWh):	70,950,649	63,962,186	305,973,361
CP Load Factor:	82.49%	75.54%	
HDD/CDD (Indianapolis):	350/18	313/6	

Purchased Power Charges	Rate	Units	Charge
Base Demand Charge:	\$ 22.230 / kW x	119,466	\$ 2,655,729.18
ECA Demand Charge:	\$ 0.038 / kW x	119,466	\$ 4,539.71
Total Demand Charges:			\$ 2,660,268.89
Base Energy Charge:	\$ 0.030525 / kWh x	70,950,649	\$ 2,165,768.56
ECA Energy Charge:	\$ 0.001274 / kWh x	70,950,649	\$ 90,391.13
Total Energy Charges:			\$ 2,256,159.69
Average Purchased Power Cost: 6.93 cents per kWh			Total Purchased Power Charges: \$ 4,916,428.58

Other Charges and Credits	
Adjustment - Lease payment for WWVS plant:	\$ (500.00)

NET AMOUNT DUE: \$ 4,915,928.58

To avoid a late payment charge, as provided for in Schedule B, payment in full must be received by: 06/15/16

Questions, please call: 317-573-9955

Send payments to: Indiana Municipal Power Agency
Dept. 78757, P.O. Box 78000, Detroit, MI 48278-0757



IMPA

INDIANA MUNICIPAL POWER AGENCY

Richmond Power & Light
 P.O. Box 908
 Richmond, IN 47374

Due Date:
07/14/16

Amount Due:
\$5,075,173.33

Billing Period: May 1 to 31, 2016

Invoice No: INV0006299
 Invoice Date: 06/14/16

Demand	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	127,993	6,731	99.86%	05/31/16	1700	74.09%
CP Billing Demand:	127,182	5,905	99.89%	05/31/16	1600	74.56%
kvar at 97% PF:		31,875				
Reactive Demand:		-				

Energy	kWh
WWVS Net Gen:	780,435
Richmond 1:	16,494,150
Richmond 2:	33,547,881
Richmond Solar:	206,020
Northwest:	11,974,710
Treaty:	7,551,996
Total Energy:	70,555,192

History	May 2016	May 2015	2016 YTD
Max Demand (kW):	127,993	119,899	146,614
CP Demand (kW):	127,182	118,711	141,804
Energy (kWh):	70,555,192	65,320,072	376,528,553
CP Load Factor:	74.56%	73.96%	
HDD/CDD (Indianapolis):	159/83	79/140	

Purchased Power Charges	Rate	Units	Charge
Base Demand Charge:	\$ 22.230 / kW x	127,182	\$ 2,827,255.86
ECA Demand Charge:	\$ 0.038 / kW x	127,182	\$ 4,832.92
Total Demand Charges:			\$ 2,832,088.78
Base Energy Charge:	\$ 0.030525 / kWh x	70,555,192	\$ 2,153,697.24
ECA Energy Charge:	\$ 0.001274 / kWh x	70,555,192	\$ 89,887.31
Total Energy Charges:			\$ 2,243,584.55
Average Purchased Power Cost: 7.19 cents per kWh			Total Purchased Power Charges: \$ 5,075,673.33

Other Charges and Credits	
Adjustment - Lease payment for WWVS plant:	\$ (500.00)

NET AMOUNT DUE: \$ 5,075,173.33

To avoid a late payment charge, as provided for in Schedule B, payment in full must be received by: 07/14/16
 Questions, please call: 317-573-9955

Send payments to: Indiana Municipal Power Agency
 Dept. 78757, P.O. Box 78000, Detroit, MI 48278-0757

IMPA Delivery Point Details

Richmond Power & Light

Billing Period: May 1, 2016 to May 31, 2016

Delivery Point	Energy kWh	<u>Individual Substation Maximum Demand</u>					<u>Demand at RICHMOND's Maximum Peak on 05/31/16 at 1700 EST</u>				<u>Demand at IMPA's Coincident Peak on 05/31/16 at 1600 EST</u>			
		Date & Time	Max kW	kvar at Max	kVA at Max	Power Factor	kW at Memb Max	kvar at Memb Max	kVA	Power Factor	CP kW	kvar at CP	kVA	Power Factor
TOTAL	70,555,192						127,993	6,731	128,170	99.86%	127,182	5,905	127,319	99.89%
Richmond 1	16,494,150	05/23/16 at 1200 EST	42,700	(1,175)	42,716	99.96%	41,000	14,800	43,589	94.06%	39,650	14,225	42,124	94.13%
Richmond 2	33,547,881	05/11/16 at 0900 EST	66,368	(5,874)	66,627	99.61%	52,445	2,329	52,497	99.90%	50,980	2,134	51,025	99.91%
Richmond Solar	206,020	05/23/16 at 1000 EST	1,046	(193)	1,064	98.34%	491	(101)	501	97.95%	888	(161)	902	98.40%
Northwest	11,974,710	05/09/16 at 1100 EST	26,178	(4,357)	26,538	98.64%	20,454	(4,547)	20,953	97.62%	21,075	(4,535)	21,557	97.76%
Treaty	7,551,996	05/23/16 at 0900 EST	25,494	4,016	25,808	98.78%	13,875	(5,585)	14,957	92.77%	14,860	(5,600)	15,880	93.58%
WWVS Generation	1,166,140	-	-	-	-	-	-	-	-	-	-	-	-	-
WWVS House Power	(385,705)	-	-	-	-	-	(272)	(165)	318	85.50%	(271)	(158)	314	86.39%

IMPA Delivery Point Details

RICHMOND WWVS PLANT

Billing Period: May 1, 2016 to May 31, 2016

Delivery Point	Energy kWh	Individual Substation Maximum Demand					Demand at RICHMOND's Maximum Peak				Demand at IMPA's Coincident Peak			
		Date & Time	Max kW	kvar at Max	kVA at Max	Power Factor	kW at Memb Max	kvar at Memb Max	kVA	Power Factor	CP kW	kvar at CP	kVA	Power Factor
TOTAL	780,435						(272)	(165)	318	-85.50%	(271)	(158)	314	-86.39%
WWVS Gen1	196,101	05/25/16 at 1900 EST	31,229	-	31,229	100.00%	-	-	-	-	-	-	-	-
WWVS Gen2	970,039	05/24/16 at 1800 EST	59,160	1,075	59,170	99.98%	-	-	-	-	-	-	-	-
WWVS SO2MonitorHP	(578)	05/10/16 at 1200 EST	(2)	-	2	100.00%	(2)	-	2	100.00%	(2)	-	2	100.00%
WWVS PumpHouseHP	(1,294)	05/24/16 at 1900 EST	(83)	(59)	102	81.51%	(1)	(1)	1	70.71%	(1)	(1)	1	70.71%
WWVS LIFAC1HP	(36,761)	05/25/16 at 1700 EST	(91)	(24)	94	96.69%	(45)	(8)	46	98.46%	(46)	(8)	47	98.52%
WWVS LIFAC2HP	(260)	05/02/16 at 0900 EST	(57)	(44)	72	79.16%	-	(1)	1	-	-	(1)	1	-
WWVS LIFAC-TWRHP	(2,491)	05/17/16 at 1600 EST	(10)	(2)	10	98.06%	(4)	(1)	4	97.01%	(5)	(1)	5	98.06%
WWVS ZeroDischargeHP	(3,907)	05/19/16 at 1300 EST	(20)	(15)	25	80.00%	(18)	(15)	23	76.82%	(18)	(15)	23	76.82%
WWVS FirePump1HP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WWVS FirePump2HP	(848)	05/05/16 at 0100 EST	(4)	(3)	5	80.00%	-	(2)	2	-	(1)	(2)	2	44.72%
WWVS BaghouseHP	(75,026)	05/17/16 at 1300 EST	(912)	(537)	1,058	86.17%	(49)	(5)	49	99.48%	(45)	(3)	45	99.78%
WWVS G1HP1	(7,531)	05/25/16 at 1900 EST	(987)	(887)	1,327	74.38%	-	-	-	-	-	-	-	-
WWVS G1HP2	(78,109)	05/25/16 at 1900 EST	(1,188)	(858)	1,465	81.07%	(71)	(60)	93	76.38%	(71)	(58)	92	77.44%
WWVS G2HP1	(95,229)	05/24/16 at 1800 EST	(4,384)	(3,067)	5,350	81.94%	-	-	-	-	-	-	-	-
WWVS G2HP2	(83,671)	05/24/16 at 1100 EST	(1,846)	(1,672)	2,491	74.12%	(82)	(72)	109	75.14%	(82)	(69)	107	76.52%



IMPA

INDIANA MUNICIPAL POWER AGENCY

Richmond Power & Light
P.O. Box 908
Richmond, IN 47374

Due Date:
08/15/16

Amount Due:
\$5,742,881.28

Billing Period: June 1 to 30, 2016

Invoice No: INV0006386
Invoice Date: 07/14/16

Demand	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	146,780	19,301	99.15%	06/20/16	1300	74.27%
CP Billing Demand:	145,832	24,011	98.67%	06/20/16	1500	74.76%
kvar at 97% PF:		36,549				
Reactive Demand:		-				

Energy	kWh
WWVS Net Gen:	4,287,788
Richmond 1:	22,095,925
Richmond 2:	33,236,919
Richmond Solar:	247,802
Northwest:	12,099,462
Treaty:	6,524,959
Total Energy:	78,492,855

History	Jun 2016	Jun 2015	2016 YTD
Max Demand (kW):	146,780	141,603	146,780
CP Demand (kW):	145,832	139,611	145,832
Energy (kWh):	78,492,855	74,956,272	455,021,408
CP Load Factor:	74.76%	74.57%	
HDD/CDD (Indianapolis):	1/295	16/251	

Purchased Power Charges	Rate	Units	Charge
Base Demand Charge:	\$ 22.230 / kW x	145,832	\$ 3,241,845.36
ECA Demand Charge:	\$ 0.038 / kW x	145,832	\$ 5,541.62
Total Demand Charges:			\$ 3,247,386.98
Base Energy Charge:	\$ 0.030525 / kWh x	78,492,855	\$ 2,395,994.40
ECA Energy Charge:	\$ 0.001274 / kWh x	78,492,855	\$ 99,999.90
Total Energy Charges:			\$ 2,495,994.30
Average Purchased Power Cost: 7.32 cents per kWh			Total Purchased Power Charges: \$ 5,743,381.28

Other Charges and Credits	
Adjustment - Lease payment for WWVS plant:	\$ (500.00)

NET AMOUNT DUE: \$ 5,742,881.28

To avoid a late payment charge, as provided for in Schedule B, payment in full must be received by: 08/15/16

Questions, please call: 317-573-9955

Send payments to: Indiana Municipal Power Agency
Dept. 78757, P.O. Box 78000, Detroit, MI 48278-0757

IMPA Delivery Point Details

Richmond Power & Light

Billing Period: June 1, 2016 to June 30, 2016

Delivery Point	Energy kWh	Individual Substation Maximum Demand					Demand at RICHMOND's Maximum Peak on 06/20/16 at 1300 EST				Demand at IMPA's Coincident Peak on 06/20/16 at 1500 EST			
		Date & Time	Max kW	kvar at Max	kVA at Max	Power Factor	kW at Memb Max	kvar at Memb Max	kVA	Power Factor	CP kW	kvar at CP	kVA	Power Factor
TOTAL	78,492,855						146,780	19,301	148,044	99.15%	145,832	24,011	147,795	98.67%
Richmond 1	22,095,925	06/23/16 at 1600 EST	52,075	9,600	52,952	98.34%	22,150	13,725	26,058	85.00%	17,450	14,075	22,419	77.84%
Richmond 2	33,236,919	06/23/16 at 1600 EST	71,866	12,256	72,904	98.58%	32,122	24,257	40,252	79.80%	25,276	23,339	34,403	73.47%
Richmond Solar	247,802	06/21/16 at 1500 EST	1,046	(191)	1,063	98.37%	903	(167)	918	98.33%	880	(163)	895	98.33%
Northwest	12,099,462	06/07/16 at 1300 EST	28,294	(4,754)	28,691	98.62%	14,149	(4,222)	14,765	95.82%	9,197	(4,156)	10,092	91.13%
Treaty	6,524,959	06/07/16 at 1300 EST	20,856	(7,068)	22,021	94.71%	7,834	(10,805)	13,346	58.70%	2,767	(10,696)	11,048	25.05%
WWVS Generation	5,136,603	-	-	-	-	-	77,688	2,251	77,721	99.96%	99,113	7,692	99,411	99.70%
WWVS House Power	(848,815)	-	-	-	-	-	(8,066)	(5,738)	9,899	81.49%	(8,851)	(6,080)	10,738	82.43%

IMPA Delivery Point Details

RICHMOND WWVS PLANT
Billing Period: June 1, 2016 to June 30, 2016

Delivery Point	Energy kWh	Individual Substation Maximum Demand					Demand at RICHMOND's Maximum Peak				Demand at IMPA's Coincident Peak			
		Date & Time	Max kW	kvar at Max	kVA at Max	Power Factor	kW at Memb Max	kvar at Memb Max	kVA	Power Factor	CP kW	kvar at CP	kVA	Power Factor
TOTAL	4,287,788						69,622	(3,487)	69,709	99.87%	90,262	1,612	90,276	99.98%
WWVS Gen1	1,839,727	06/27/16 at 1600 EST	34,910	758	34,918	99.98%	28,867	480	28,871	99.99%	34,793	2,666	34,895	99.71%
WWVS Gen2	3,296,876	06/20/16 at 1600 EST	66,024	4,565	66,182	99.76%	48,821	1,771	48,853	99.93%	64,320	5,026	64,516	99.70%
WWVS SO2MonitorHP	(856)	06/01/16 at 1000 EST	(2)	-	2	100.00%	(2)	-	2	100.00%	(2)	-	2	100.00%
WWVS PumpHouseHP	(5,661)	06/27/16 at 1300 EST	(152)	(106)	185	82.02%	(84)	(58)	102	82.29%	(117)	(83)	143	81.56%
WWVS LIFAC1HP	(37,130)	06/27/16 at 1400 EST	(96)	(25)	99	96.77%	(46)	(13)	48	96.23%	(44)	(12)	46	96.48%
WWVS LIFAC2HP	-	-	-	(1)	1	-	-	(1)	1	-	-	(1)	1	-
WWVS LIFAC-TWRHP	(2,816)	06/19/16 at 1600 EST	(11)	(2)	11	98.39%	(11)	(2)	11	98.39%	(10)	(2)	10	98.06%
WWVS ZeroDischargeHP	(13,031)	06/10/16 at 1300 EST	(19)	(15)	24	78.49%	(19)	(15)	24	78.49%	(19)	(15)	24	78.49%
WWVS FirePump1HP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WWVS FirePump2HP	(552)	06/01/16 at 0100 EST	(1)	(3)	3	31.62%	(1)	(2)	2	44.72%	(1)	(2)	2	44.72%
WWVS BaghouseHP	(135,755)	06/20/16 at 1600 EST	(993)	(598)	1,159	85.67%	(916)	(559)	1,073	85.36%	(962)	(586)	1,126	85.40%
WWVS G1HP1	(85,413)	06/20/16 at 1500 EST	(1,164)	(1,026)	1,552	75.02%	(1,094)	(971)	1,463	74.79%	(1,164)	(1,026)	1,552	75.02%
WWVS G1HP2	(152,985)	06/21/16 at 1300 EST	(1,277)	(929)	1,579	80.87%	(1,178)	(859)	1,458	80.80%	(1,251)	(874)	1,526	81.98%
WWVS G2HP1	(312,100)	06/20/16 at 1600 EST	(4,939)	(3,300)	5,940	83.15%	(4,349)	(3,095)	5,338	81.47%	(4,877)	(3,302)	5,890	82.81%
WWVS G2HP2	(102,516)	06/19/16 at 1500 EST	(1,754)	(1,667)	2,420	72.49%	(366)	(163)	401	91.35%	(404)	(177)	441	91.59%

REVENUE REPORT

April-16

1

RATE CODE	HOURS	REVENUE DOLLARS	KVA
RESIDENTIAL			
	<u>13,732,146</u>	<u>\$ 1,477,208.64</u>	
Total R 44010	13,732,146	\$ 1,477,208.64	
COMMERCIAL			
	<u>2,713,715</u>	<u>\$ 405,136.25</u>	<u>0</u>
Total CL 44210	2,713,715	\$ 405,136.25	0
GENERAL POWER			
	<u>11,137,147</u>	<u>\$ 1,127,263.64</u>	<u>18,893</u>
Total GP 44220	11,137,147	\$ 1,127,263.64	18,893
INDUSTRIAL POWER			
IS -COIN	4,324,600	\$ 414,738.88	12,668
IS	<u>2,860,250</u>	<u>\$ 241,819.40</u>	<u>5,644</u>
Total IS 44270	7,184,850	\$ 656,558.28	18,312
LARGE POWER			
LPS-COIN	27,472,506	\$ 2,160,156.61	57,168
LPS	<u>6,970,170</u>	<u>\$ 668,113.76</u>	<u>17,522</u>
Total LPS 44280	34,442,676	\$ 2,828,270.37	74,690
GENERAL ELECT HEAT			
	<u>175,489</u>	<u>\$ 18,528.13</u>	<u>46</u>
Total GEH 44290	175,489	\$ 18,528.13	46
ELECTRIC HEAT SCHOOLS			
43	<u>86,256</u>	<u>\$ 8,141.09</u>	<u>0</u>
Total EHS 44500	86,256	\$ 8,141.09	0
RESIDENTIAL - OLS			
	<u>267,911</u>	<u>\$ 22,854.42</u>	
Total OLS 44260	267,911	\$ 22,854.42	
FLAT RATE (237)			
Rate 8 - N	26,630	\$ 5,767.44	
Rate 39 - CATV	<u>39,328</u>	<u>\$ 6,593.99</u>	
Total N 44410	65,958	\$ 12,361.43	
ACCOUNTS RECEIVABLE CONTROL			
Total 14210	<u>69,806,148</u>	<u>\$ 6,556,322.25</u>	<u>111,941</u>

April-16

	RATE CODE	KILOWATT HOURS	REVENUE	KVA
TRAFFIC LIGHTS				
STREET DEPT	44430	6,717	\$ 1,978.26	
PUBLIC BLDGS - CITY	44230	41,308	\$ 5,908.62	
CITY STREET LIGHTS				
Rate 7	44420	<u>520,329</u>	<u>\$ 66,071.37</u>	
	CITY - GP 44	118,197	\$ 12,973.78	0
	CITY - GEH 46	104,501	\$ 11,125.73	52
	Sanitation - IS	<u>782,250</u>	<u>\$ 61,866.22</u>	<u>1,541</u>
	44240	<u>1,004,948</u>	<u>\$ 85,965.73</u>	<u>1,593</u>
	CITY -14610	<u>1,573,302</u>	<u>\$ 159,923.98</u>	<u>1,593</u>
TOTAL ALL REC'V [14210+14610]		<u><u>71,379,450</u></u>	<u><u>\$ 6,716,246.23</u></u>	<u><u>113,534</u></u>
	PENALTIES 45000		\$ 56,254.13	
	SALES TAX 24170		\$ 209,679.79	
	WRITE OFFS 14400		\$ 41,409.32	
TOTAL OF ALL CHARGES		<u><u>71,379,450</u></u>	<u><u>\$ 7,023,589.47</u></u>	

REVENUE REPORT

May-16

1

	RATE CODE	HOURS	REVENUE DOLLARS	KVA
RESIDENTIAL				
		<u>10,471,006</u>	<u>\$ 1,184,273.63</u>	
	Total R 44010	10,471,006	\$ 1,184,273.63	
COMMERCIAL				
		<u>2,162,223</u>	<u>\$ 335,100.31</u>	<u>0</u>
	Total CL 44210	2,162,223	\$ 335,100.31	0
GENERAL POWER				
		<u>10,597,685</u>	<u>\$ 1,073,127.15</u>	<u>18,448</u>
	Total GP 44220	10,597,685	\$ 1,073,127.15	18,448
INDUSTRIAL POWER				
	IS -COIN	4,258,800	\$ 318,570.71	12,812
	IS	<u>2,923,000</u>	<u>\$ 243,134.14</u>	<u>5,711</u>
	Total IS 44270	7,181,800	\$ 561,704.85	18,523
LARGE POWER				
	LPS-COIN	27,272,952	\$ 2,194,568.90	55,362
	LPS	<u>7,088,596</u>	<u>\$ 674,016.84</u>	<u>17,578</u>
	Total LPS 44280	34,361,548	\$ 2,868,585.74	72,940
GENERAL ELECT HEAT				
		<u>149,637</u>	<u>\$ 15,747.65</u>	<u>46</u>
	Total GEH 44290	149,637	\$ 15,747.65	46
ELECTRIC HEAT SCHOOLS				
	43	<u>71,100</u>	<u>\$ 6,710.63</u>	<u>0</u>
	Total EHS 44500	71,100	\$ 6,710.63	0
RESIDENTIAL - OLS				
		<u>255,462</u>	<u>\$ 22,449.77</u>	
	Total OLS 44260	255,462	\$ 22,449.77	
FLAT RATE (237)				
	Rate 8 - N	27,504	\$ 5,722.31	
	Rate 39 - CATV	40,684	\$ 6,761.00	
	Total N 44410	<u>68,188</u>	<u>\$ 12,483.31</u>	
ACCOUNTS RECEIVABLE CONTROL				
	Total 14210	<u>65,318,649</u>	<u>\$ 6,080,183.04</u>	<u>109,957</u>

May-16

	RATE CODE	KILOWATT HOURS	REVENUE	KVA
TRAFFIC LIGHTS				
STREET DEPT	44430	6,368	\$ 1,939.37	
PUBLIC BLDGS - CITY	44230	34,839	\$ 5,047.05	
CITY STREET LIGHTS				
Rate 7	44420	<u>504,631</u>	<u>\$ 65,100.35</u>	
	CITY - GP 44	93,435	\$ 10,514.31	0
	CITY - GEH 46	113,097	\$ 11,689.44	53
	Sanitation - IS	<u>737,100</u>	<u>\$ 52,986.85</u>	<u>1,298</u>
	44240	<u>943,632</u>	<u>\$ 75,190.60</u>	<u>1,351</u>
	CITY -14610	<u>1,489,470</u>	<u>\$ 147,277.37</u>	<u>1,351</u>
TOTAL ALL REC'V [14210+14610]		<u><u>66,808,119</u></u>	<u><u>\$ 6,227,460.41</u></u>	<u><u>111,308</u></u>
	PENALTIES 45000		\$ 35,770.45	
	SALES TAX 24170		\$ 182,395.93	
	WRITE OFFS 14400		\$ 42,317.40	
TOTAL OF ALL CHARGES		<u><u>66,808,119</u></u>	<u><u>\$ 6,487,944.19</u></u>	

REVENUE REPORT

June-16

1

RATE CODE	HOURS	REVENUE DOLLARS	KVA
RESIDENTIAL			
	<u>12,742,094</u>	<u>\$ 1,389,315.56</u>	
Total R 44010	12,742,094	\$ 1,389,315.56	
COMMERCIAL			
	<u>2,473,706</u>	<u>\$ 374,352.48</u>	<u>0</u>
Total CL 44210	2,473,706	\$ 374,352.48	0
GENERAL POWER			
	<u>11,916,573</u>	<u>\$ 1,202,666.66</u>	<u>19,169</u>
Total GP 44220	11,916,573	\$ 1,202,666.66	19,169
INDUSTRIAL POWER			
IS -COIN	4,307,450	\$ 385,994.43	12,618
IS	3,344,200	\$ 278,466.45	6,611
Total IS 44270	<u>7,651,650</u>	<u>\$ 664,460.88</u>	<u>19,229</u>
LARGE POWER			
LPS-COIN	29,057,890	\$ 2,354,854.13	58,502
LPS	7,373,050	\$ 679,683.08	17,223
Total LPS 44280	<u>36,430,940</u>	<u>\$ 3,034,537.21</u>	<u>75,725</u>
GENERAL ELECT HEAT			
	<u>138,672</u>	<u>\$ 14,377.95</u>	<u>44</u>
Total GEH 44290	138,672	\$ 14,377.95	44
ELECTRIC HEAT SCHOOLS			
43	69,600	\$ 6,569.06	0
Total EHS 44500	<u>69,600</u>	<u>\$ 6,569.06</u>	<u>0</u>
RESIDENTIAL - OLS			
	<u>265,165</u>	<u>\$ 22,076.87</u>	
Total OLS 44260	265,165	\$ 22,076.87	
FLAT RATE (237)			
Rate 8 - N	30,254	\$ 5,708.33	
Rate 39 - CATV	44,753	\$ 7,353.21	
Total N 44410	<u>75,007</u>	<u>\$ 13,061.54</u>	
ACCOUNTS RECEIVABLE CONTROL			
Total 14210	<u>71,763,407</u>	<u>\$ 6,721,418.21</u>	<u>114,167</u>

June-16

	RATE CODE	KILOWATT HOURS	REVENUE	KVA
TRAFFIC LIGHTS				
STREET DEPT	44430	6,765	\$ 1,988.29	
PUBLIC BLDGS - CITY	44230	36,835	\$ 5,218.67	
CITY STREET LIGHTS				
Rate 7	44420	<u>572,805</u>	<u>\$ 65,062.24</u>	
	CITY - GP 44	124,272	\$ 13,651.22	0
	CITY - GEH 46	108,473	\$ 11,407.87	54
	Sanitation - IS	679,350	\$ 51,412.42	1,199
	44240	<u>912,095</u>	<u>\$ 76,471.51</u>	<u>1,253</u>
	CITY -14610	<u>1,528,500</u>	<u>\$ 148,740.71</u>	<u>1,253</u>
TOTAL ALL REC'V [14210+14610]		<u><u>73,291,907</u></u>	<u><u>\$ 6,870,158.92</u></u>	<u><u>115,420</u></u>
	PENALTIES 45000		\$ 38,692.94	
	SALES TAX 24170		\$ 209,322.13	
	WRITE OFFS 14400		\$ 17,562.44	
TOTAL OF ALL CHARGES		<u><u>73,291,907</u></u>	<u><u>\$ 7,135,736.43</u></u>	